HOARD'S DAIRYMAN
2010 EDITORIAL INDEX

Index to Volume 155
HOARD'S DAIRYMAN

W. D. Hoard and Sons Company, Publishers
Fort Atkinson, Wis. 53538

All pages followed by an (R) are in regional editions only.
125th anniversary edition in June.
EXPO pages are in September 10.

- A -

Abomasum--displaced ... 122-576-586
Achen, J., wins Core Scholarship ..... EXPO 29
Additives--feeding .. 180-472-620-621
Advanced Dairy Nutrition--on-line classes 21
Africa--South (homicide rate for farmers) 580
Air--High Plains Dairies, quality 48
Albrecht, B.--one-cow string (Nina) ..... EXPO 43
Alfalfa--by-product feeds to replace 137
-late-day-cut 558
-liming 120
-nutrient demand 627
-relative forage quality . 297
-root rot 93
-stand evaluation 336
-top 10 states 505
Algae--dried 665
All American Jersey Show 815
All Jersey Sales--annual meeting 515
Along the Way .. 67-145-225-319-391-493-567-
American Association of Bovine Practitioners --annual meeting 580
American Biogas Council 405
American Dairy Science Assn--annual meeting (joint) 133-262
-awards 505
American Guernsey Assn. --annual meeting 514
American Jersey Cattle Assn.--animal identification records .. 283
-annual meeting 515
American Milking Shorthorn Society--annual meeting 516
American Registry of Professional Animal Scientists--annual meeting 672
American Society of Animal Science--annual meeting 133
American Veal Assn. --annual meeting 243
Americans--food stamp use 127
Anaerobic digestion 405-746
-research facility (Michigan) 39
Anaplasmosis 594
Animal care--Ohio 474
Animal welfare 654
-audits 11
-cows 513
-FARM 247
-Grandin, T. 375
-Ohio 243
Animal Welfare Act --offenders publicized .. 405
Antibiotics--breakdown in manure 248
-milk replacer ban 208
-residue (groundwater) 618
-resistance (grant) 789
-use 664
Antimicrobial resistance . 551
Arizona--immigration statute 483
Arla Foods 43
Arlig, C., lager Scholarship winner ..... EXPO 29
Around the Kitchen Table 631-727-833
ARPAS--annual meeting 672
Arrowsmith Family ... 566-639
Artificial breeding --bull fertility difference 176
-calving protocol 98
-genetic focus 444
-genomics 343-482-570
-heifer timed 606
-heifers 264-354
-inbreeding 220
-Net Merit Index 63
-reproductive programs .24
-reproductive science . 428
-selection criteria 800
-semen placement 528
-sire selection 307
-3K SNP chip..... 817
-timed programs .. 276-794
-troubleshooting repro 770
Attitudes 667-708
Auction--livestock, training program 465
Australia--locust plague .. 741
Ayrshire Breeders' Assn.--annual meeting 514

- B -

Barn--free stall (rubber flooring) 326
-1930's (dairy museum) 127
-transition 552
Bears--economic 287
Bedding--deep-bedded manure solids 510
-retainers 701-831
-sawdust 288
Beef--dairy 249
-grass-fed 746
Ben & Jerry's--"All Natural" phaseout 704
Benchmarking--United Kingdom 718
Berge, L. and L. and Family (transition barn) 552
Bikowitz, P., (CEO Southeast Milk 163
Biofilters 378
Birds--control 288
Bloat--calves 252
Blog Focus .. 20-74-109-139 189-206-246-286-334-374-408-468-508-573-584-616-648-688-744-792
Blood pressure--milk protein supplement reduces 8
Blood tests--pregnancy diagnosis 474
Bonemeal--prices 248-650
Bongards' Creameries --cheese-processing facility in Minn. 331
Books--Scatterin's 105
Boots--manure and dirt contamination 336
Bovine respiratory disease --infrared pictures (diagnosis) 510
Bovine viral diarrhea 49
-bulls spread 141
-impacts 376
Breeding--pregnancy rates 85
BRIC countries 371
Bright Dairy and Food --buys majority stake in Synlait Milk 505
Broadband--expansion 345
Brown Swiss Cattle Breeders Assn.--annual meeting . 515
Bt corn 816
Bulk tank--compliance deadline 550
-manufacture of 392
Bull--Canadian (fully sequenced) 283
Bull list--Hoard's Dairyman 101-104, 301-304, 561-564-639, 819-822
Bulls--BVD 141
-fertility difference 176
-Holstein (sire stillbirth) 639
-liability 331
-on line availability 48
Bunker--packing thin 470
Bunker silos--sidewall plastic 510
Butter--sculpture (J. Victor) 318
Buttles, A. and L. (Progressive Dairy Producer) .. EXPO 30
BVD (see bovine viral diarrhea)
By-product--feed values . 352

- C -

CAFO--planning 248
Calcium--Vitamin D and . 248
California--dairy farm loss 127
-license plate (new) 465
-milk drop 16
-milk production costs . 203
Calves--antibody transfer 550
-automatic feeders 38
-bloat 252
-care 420
-crypto 74-751
-diarrhea 768
-ear infections 640
-feeding 56-198
-group housing 8
-hauling long distance ... 48
-housing 379
-joint problems 278
-newborn breathing 61
-pneumonia 430-581-794
-postweaning 58
-pulling 680
-respiratory problems ... 640
-salmonella vaccination . 848
-scours 521-540
-stress relief 650
-twins (different sires) 61
-vitamin D supplementation 586
-waste milk 315
Calving 10
-abnormal positions 268
-procedure 226
-protocol 98
Camerlo, T., dies 3
Canada--dairy code 654
-moving to states from 443
-national dairy herd 243
-Radio Frequency Identification 465
Canadian Society of Animal Science..... 133
Capper-Volstead 509
Carbon footprints 617
Cattle--Canadian (Radio Frequency Identification) 465
Cattle--handling 216
-zoonotic diseases 366
Cellulosic bio-fuel --production 163
Cheese--Jersey carbon footprint 510
-flaw (proper internal teat sealant use prevents) 168
-per capita consumption 79
-processing (Bongards'Creameries) 331
-Tulare plant closed 465
-vegetables and 650
Chemicals--safety tips 618
Cherokee--grandmother ... 67
Children--farm chores (safety) 84
-migrant (education) 174
-milk consumption 376
-obesity 505
-school (potential health risks around cattle) 366
China--melamine contamination 127
-milk processor buyouts 505
Chlorine--Johne's protection 470
Classes--on-line 21
Climate--change (Colorado State University research) 465
Coca-Cola--sugary drinks (schools) 243
Colleges--four-year 598
Colloidal silver--use 500
Colorado State University --climate change research 465
Colostrometer--use 132
Colostrum--components . 692
-pasteurizing 208-589
-photoperiod relationship 618
-quality testing 248
Common Threads 27-115 191-267-351-451-533-597-667-773
Consultant--dairy (J. Giesy) 30
Consultants--nutrition 826
Consumers--educating 191
Cooling--cows 485
Cooperatives--Bongards' Creameries 331
-CROPP 3
-dairy 186
-DFA 316-704
-Land O'Lakes 465
-Premier Milk, Inc. 331
-top 50 651
Cooperatives Working Together--lawsuit 645
Corn--Bt 816
-drying time 141
-feeding 765
-high-moisture vs. dry .. 661
-prices 8-288-420-510-618-690
-prices (quick changes) . 84
-quality (weather warming) 228
-seed (ordering) 778
-silage (seed) 632
-silage (top 12 states) . 127
-starch level 13
-test weight (moisture's effect) 557
Cottonseed--supply increase 331
-whole (prices).....168
Council for Agricultural Science and Technology --symposium 331
Council on Dairy Cattle Breeding--Dairy Data Alliance 789
-semi-annual meeting 445
Counties--cow density 623
-top dairy, in U.S. 9
Cover crops 527
Cow judging contest -Ayrshire class 125
-Brown Swiss class 1
-Guernsey class 77
-history 442
-Holstein class 41
-Jersey class 161
-judges 290
-owners and production records 250-251
-placings 291
-reasons 290
-scoring key 291
-winners 335
Cows--animal welfare 513
-BVD 49
-care (good tools essential) 808
-closeness with 27
-close-up (care) 177-338
-comfort (Round Table) . 88
-comfort indexes 340
-cooling 485
-cull 601
-culling (Round Table) . 796
-density by counties 623
-drug use 209
-dry (care) 170
-dry (care--transition barn) 552
-dry (straw feeding) 396
-dry treating 593
-feed intake 296
-first lactation (bunk space) 650
-fresh (care) 170-619
-fresh (conditions) 609
-fresh (problems) 511
-fly control 574
-gas emissions 617
-heat detection 106
-heat stress ... 420-438-470
-heat stress (Round Table) 88
-hoof trimming 211
-in vitro fertilization 146
-India 336
-injury prevention 814
-international sales 771
-ketosis 448
-lameness 148-435-531
-lameness (neck rail moving aids recovery) 132
-M. bovis 784
-metritis 8-471
-milking (six must-do's) 775
-monitoring 308-348
-numbers (top counties) .. 9
-numbers (2009) 169
-pneumonia 581
-PTA downward shift ... 288
-robotic 746
-rounding up 424
-resynchronizing nonpregnant 106
-Salmonella 736
-selling decision 762
-treating decision 28
-transition (overstocking at feed bunk) 420
-transition care 86-208-619
-type classification scores 215
Credit--dairy loans 764
CROPP--Stoneyfield 3
Crops--row (county averages) 203
-yields 645
Crossbreeds--comparison with purebreds 707
CRP--acres in 43
Crypto--calves 74-751
-human side 799
Culling 601
-Round Table 796
CWT--export assistance . 283

- D -

Dairies--operation (Lincoln's traits) 47
-organic 8
Dairy--consultant (J. Giesy) .30
-marketing plan 422
-markets 83-487
Dairy Animal and Poultry Science--meetings 691
Dairy beef 249
Dairy Cattle Reproduction Council--awards 752
-nominations sought for top repro herds 288
Dairy Data Alliance--formed 789
Dairy Day Camp 192
Dairy farmers--health insurance 8
-voice needed 236
Dairy Farmers of America --annual meeting 316
-patronage earnings 704
Dairy foods--heart health 505
Dairy industry--educating consumers 727
-lobbying 480
-125 years 412-419
- scholarships ..... EXPO 38
Dairy products--global demand 111
-mental agility in the aging 586
-myths 288
-packaging 649
-taste 690
Dairy promotion--Southwest Dairy Farmers 630
Dairying--carbon footprints 617
-consumer education ... 494
-cost of production 488
-exit decision 762
-financial difficulty advice 469
-financial shock waves 830
-forecast 656
-France 143
-future 441-803
-getting started 492
-image 7
-India 760
-Israel 3
-losses mount 420
-operational risks 230
-precision 377
-profit in 2009 823
-2010 804
Daniels, L. (Young Dairy Leaders Award) 43
Danone--yogurt sales growth 243
Dean Foods--quarterly profit 789
Dehorning--pain alleviation 586
Delactosed permeate --feeding 518
Denmark--VikingGenetics 405
Desserts--frozen (sales rise) 127
Diabetes--whey protein .. 420
Diaries--farm 451
Diarrhea--calves 768
Discover Conferences 185
Diseases--zoonotic 366
Disk mowers 293
Displaced abomasums ...122-576-586
Distillers grains--futures .. 470
-prices 208-746
Domino's Pizza --build-your-own pizza ... 79
Driving--safe 145
Drugs--cows 209
-residues 360-689
-use guideline 652
Dry matter--monitoring ... 218
Dry treating 593

- E -

Education--consumer 298
-migrant youth 174
Electricity--wasters ..... 91 (R)
Embryo transfer fraud 18
Emissions--farm, research (countries involved) 43
Employees--attitudes 667-708
-cultural gap 183
-evaluating 569
-HIRE Act 490
-nurturing 222
Energy--focus on (Pineview Farm) ..... 31 (R)
Energy pyramid 376
EPA--milk spill rule 829
Equipment--maintenance to prevent field fires 720
-old, caused mastitis ... 524
Ever-Green-View My 1326-ET--sets record 163

- EDITORIALS -

-ag jobs outlook 592
-animal care 294-

KEY TO PAGE NUMBERS

January 10	1-40	June	401-462
January 25	41-76	July	463-502
February 10	77-124	August 10	503-542
February 25	125-160	August 25	543-578
March 10	161-200	September 10	579-610
March 25	201-240	September 25	611-642
April 10	241-280	October 10	643-682
April 25	281-328	October 25	683-738
May 10	329-368	November	739-786
May 25	369-400	December	787-850

HOARD'S DAIRYMAN

380
-asset value drop 214
-cheese 622
-Christmas scripture 802
-cooperatives 342
-cow numbers 342
-culling of older cows 342
-CWT 92
-dairy exports 556
-dairy forecast 380
-Dairy Industry Advisory Commission 60-214
-dairy policy 476-660-802
-dairy price supports 140
-dairying (economic impact) 294
-dairying's future 60
-drug use 660
-economic recovery 754
-ethanol growth 700
-fat tests (low) 592
-FAPRI analysis 802
-financials (2009) 380
-fluid, standards 802
-food safety 660
-genomics 426
-global warming 426
-grain costs 754
-heifer inventory 172
-herd health 12
-higher-solids milk 172
-Johne's-Crohn's speculation 592
-Kerschensteiner, M., dies 556
-land ownership 294
-lending ground rules 140
-livestock and poultry industry crisis 172
-livestock emissions 92
-Mandatory Price Reporting Act 700
-milk marketing 520
-milk price volatility 700
-milk prices 12
-milk production 556
-milk production growth -safety 622
-National ID plans 260
-nutrition tops medication 60
-125th anniversary 426
-organic producers 12
-production control 260
-raw milk veto 476
-renewable energy 260
-Roundup Ready alfalfa 92
-safety (cows with "attitudes" 476
-2009 dairying 754
-videos (animal care) 520
-weather effects 214
-wholesale-retail price trends 140

- F -

Facebook--"I support dairy farmers" 127
Fair--consumer education 494
Family--history (recording) 319
-vacation importance 833
Farm--childhood chores 267
-confidence building (children) 632
-consumer education 298-585
-dairy (California loss) 127
-dairy (numbers) 167
-diaries (mother's) 451
-economic bears 287
-equity drain 151
-family 690
-finances 628
-finances (debt repayment) 521
-finances (lender relationship) 53-550
-financial advice 545
-future 793
-LAND program 346
-management strategies 586
-manager 825
-margins 834
-mega operations 733
-organic 163
-problems 812
-safety 336-626
-socially sustainable 224
-stress (coping) 324
-subsidies 243
-summertime memories 533
-suppliers (credit) 306
-team meetings 142
-transfers 221
FARM--animal welfare 247
Farmers Assuring Responsible Management --Spanish version 505
Farmers Feed Us 705
Farmers' markets --directory 580
Farmland--value down 3
Fat tests--low 602
FDA--raw milk warning 331
FDA Food Safety Modernization Act 43
Feathers--feeding chicken 746
Feed--additives 180-472-620-621
-by-product 137-352
-costs up 804
-dry matter (monitoring) 171
-efficiency 132
-fermenting (ozone levels) 505
-intake 296
-inventories (tracking) 810
-moldy (mastitis and metritis) 84
-organic (growing own) 168
-prices 618
-sorting 690
Feeders--automatic (calves) 38
-plastic barrel 351
Feeding--additives 180-472-620-621
-by-product feeds 137
-calves 56-198
-cheesemaking by-products 518
-chicken feathers 746
-corn 765
-corn (weather warming) 228
-cost cutting 168
-dry matter monitoring 218
-forage 20-555
-Johne's protection through 248
-milk replacers 521
-monensin 498
-precision 446
-research updates 691
-starch degradability 270
-strategies 512-795
-straw 396
-study 100
-targeted protein 662
-TMR 339
Fertilizer--costs down 261-465
-manure 87-210
FFA--National, Dairy Entrepreneurship winner (J. Hartschuh) 320
FFA convention--top dairy cattle evaluation team 3
-winning dairy foods team 3
Finances--balancing 706
-dairying 764
-debt repayment 521
-equity drain 151
-farm 545-628-830
-farm (economic bears) 287
-income over feed costs 719
-loans 21-53-764
-loans (obtaining bank) 173
-planning 638
Fire--field (preventing) 720
-preplanning 389
Flooring--rubber (free stall area) 326
Fly control 574
Fonterra--export record 645
-Indian Farmers Fertiliser Cooperative--partnership 704
-milk powder dryer 163
Food--safety concerns 789
Food banks 163
Food stamps--use 127
Foot bath--operation 376
Forage--analysis 20
-basics 794
-dry matter determination 618
-feeding 555
-grass 337
Foster Mothers of the Human Race 409-EXPO 40
4-H--leader (Connie Wood) 144
4-State Dairy Nutrition and Management Conference 278
France--dairying 143
Freemartins 593
Futures 776

- FARM WRITEUPS -

Arrowsmith Family 566
Berge, L. and L., and Family (transition barn) 552
McQuiddy (grazing) 758
Neill and Sons Dairy 653
Nickel, J. (farming with hearing loss) 832
Pineview Farm (Focus on Energy programs) 31 (R)
St. John, R. (grazing) 253(R)
Sturgeon, T. (adversity) 66
Welcome Stock Farm (genomic testing) 693-698

- G -

Gable--McKown Master Breeder Award EXPO 36
General Mills Foodservice --school breakfast programs 545
Genomics 482-570
-adjustments 343
-evaluations 288
-National Holstein Convention discussion 405
-research 445
-test (50K SNP) 639
Giesy, J. (dairy specialist) 30
Globalization 549
Goats--milk (Wis.) 243
Golden Milk Stool Rule 441
Grandin, T. (animal welfare) 375
Grandmother--Cherokee 67
Grass-disk mowers 293
-forage 337
-perennial management 336
Grazing--McQuiddy farm 758
Grazing--southern 510
-St. John 253 (R)
Greenhouse gases 658
-meat production's impact 283
-reducing strategies 794
Groundhogs--displacement 493
Gypsum 824

- H -

Hairy heel--treatments 650
Hannaford Supermarket 79
Hartschuh, J. (National FFA Dairy Entrepreneurship winner) 320
Hay--particle length (sorting) 690
-standing (pricing) 212
Health insurance (dairymen) 8
Heart health--dairy foods promote 505
Heat--natural 763
-wood 763
Heat detection 306-305
Heat stress--cows 420-438-470
-Round Table 88
Heating--water costs 766
Heifers--A.I. 264
-breeding 354
-growth 624
-housing 690
-inventory 187
-pneumonia 581
-TMR 288
High Plains Daines--air quality 48
HIRE 490
Hiring Incentives to Restore Employment Act 490
Hoard's Dairyman --anniversary timeline 410
Hoard's Dairyman Farm --team 108
Holstein--production record (Ever-Green-View My 1326-ET) 163
Holstein Canada --Van Doormaal new chief executive officer 580
Holstein USA--annual meeting 516
-judges lists 79
Hoof trimming 211-618
Hops--methane cut by 336
Hormones--dictionary 534
Housing--group (calves) 8
Humane Society of the United States--Charity Navigator ruling 371
-contributions (2008) 203

- HANDY HINTS -

Auger--tires support 191
Bale--moving 27
Balling gun--low-cost 115
Barn--tie stall (clear panels) 145
Barrel rack 493
Battery--easy access 631
-old (new life) 727
Board--reusable calf information 533
Boots--cutting down 631
Bottle holder 597
Box--wooden, collects dryer lint 493
Brush-moving attachment 533
Bucket--handles 319
Buckets--colored, identify calf sex 667
Calf bottles--recycled 567
Calf carrier 833
Calves--moving newborn 319
Chalk--identification 631
Conveyor--swivels 67
Countertop tags 267
Crate--calf (barrel) 773
Curtain rods--magnetic 773
Dipper--handle 145
Door--sliding, closes automatically 391
Doors--sliding, on rotary parlor 267
Downspout--drain tile hooked to 191
Drill--no-till, cleaned with shop vac 225
Eartags--purchased cattle tracking 667
Feeder--esopahageal 451
-plastic barrel 351
-shuttle container 267
Flags--identify milk quantity 727
Flour--oil spill cleaned with 115
Gate--starting 773
-wheel on 191
Heat detection--texting 67
Heifers--breeding height 493
-housing 690
Hose--thread protection 493
Hoses--milk (fence insulator) 567
Hubcap--protection 727
Hutches--moving calf 67
Hydraulics--fittings (caution) 451
-tractor (addition of) 319
Indicator--waving 597
Inflations--reminder to change 533
IV--PVC pipe keeps, in plane 115
Ketosis--whiteboard tracks, testing 391
Lawn mower--deck cleaning 267
Light--cattle check 631
Magnet label 451
Milker--squawking (wire stops) 351
Mixer--milk replacer 145
Neck rails--movable 727
Nipple storage rack 391
Pallet--storage, holds string and net wrap 145
Palpation rail 451
Post--polywire hanger 225
Pylon--children protected by 27
Reel--air hose 833
Roof--low clearance reminder 667
Safety--TMR 27
Scraper--stall 225
Seeder--recalibrated 597
Semen inventory 567
Shot reminder 391
Shower--cow 773
Stairs--belting 319
Stakes--inflation protectors 667
Sump pump adds water to TMR 351
Supplies--breeding (organization) 533
Tank--water, protection 225
Tape--colored, marks distance 27
TMR--safety 27
Tractor--air freshener 67
Trailer--fresh cow 567
Train wheels--bunker packing 351
Wagon--calf-feeding, made from barrel 597
Water lines--tile line protection 191
Waterer--guard 833
-nontippable 115

- HOARD'S DAIRYMAN FARM -

-closeup cow care 177
-team 108

- I -

Ice cream--Ben & Jerry's 704
-sales rise 127
IDEAL Foundation --donation received 639
Identification--Radio Frequency (Canada) 465
Identity theft--prevention 225
Illinois Milk Producers Assn. --dairy meetings 789
Immigration 96-376
-Arizona statute 483
Inbreeding 220
-cattle (prevention) 814
in vitro fertilization 146
Income taxes--dairy disaster may cause unique situations 179
India--cow numbers 336
-dairying 760
Indian Farmers Fertiliser Cooperative--Fonterra partnership 704
Injuries--cattle (prevention) 814
Insurance--health (dairymen) 8
Internet--high-speed 345
Interview--conducting 586
Iowa--liquid manure spreading banned on frozen ground 168
Israel--dairying 32

- J -

Jerseys--All American Show 815
-carbon footprint for cheese 510
Job shadowing 116
Johne's--chlorine protects against 470
-cost in dairy herd (booklet) 580
-minimizing financial impact 48
-protection through feeding 248
Johnson, D. and L. (Progressive Dairy Breeders) EXPO 30
Judges--Holstein USA, lists 79

- K -

Kansas--veterinarian program 505
Kansas State University--grant (antibiotic resistance) 789
Kentucky Dairy Industry Partners 95
Kerschensteiner, M., dies 556
Ketosis 448
-subclinical 595
King Barn Dairy MOOseum 127
Klussendorf Award--McEvoy wins EXPO 46
Klussendorf Trophy--Stiles wins 695
Klussendorf-McKenzie Award --McCauley wins EXPO39
Kretzing, P. and A. (raw milk experience) 432

- L -

L. monocytogenes --contamination 336
Lab pasteurized counts 671
Labor (see employees)
Lactose intolerance 79
Lameness 148-435-531
-leg lesions 132
-neck rail moving aids, recovery 132
Land--CRP 43
-values 203-477
Land O' Lakes--Tulare cheese plant closed 465
LAND 346
Laws--political process 774
Leg--lesions (risk factors) 132
Lenders--dealing with 53-550
License plate--California (new) 465
Lime--alfalfa 120
Lincoln--leadership traits for running dairy farm 47
Livestock--more, not less, needed 97
Loans 21
-obtaining bank 173
Lobbying--dairy industry 480
Locusts--plague 741

- M -

M. bovis 784
Manager--looking up or looking down 825
Manure--antibiotics in 248
-breed differences in, excretion 248
-digested and nondigested 690
-equipment (cleaning) 208
-excretion standard 376
-fertilizer value 87-210
-liquid spreading banned on frozen Iowa land 168
-rye and 527
-solids for bedding 510
-starch levels 139
-value 818
Manure digesters--operating in U.S. 505
Manure pits --safety standards 755
Margin management 557-588-834
Mastitis 94
-clinical 184
-clinical (cost) 112
-clinical (ID) 181
-coliform (vaccinating) 550
-control (dry and fresh cow care) 170
-moldy feed 84
-old equipment caused 524
-patterns 256
-research 458
-S. aureus 618
-subclinical (treating) 747
-vaccination 112
McCullough Scholarship (Jackson and Kasper win) EXPO 29
McEvoy, C. (Klussendorf Award winner) EXPO 46
McKown Master Breeder Award--Gable wins EXPO 36
McQuiddy, C. and S. (grazing) 758
Meat--consumption down 93
Melamine--China 127
Memorandum of Understanding 259
Merle Howard Award --Aves wins 725
Methane--emissions decreased with oregano 650
-hops could help cut 336
Metritis 8-471-587
-moldy feed 84
Michigan Milk Producers Assn.--equity retirements 371
-patronage refunds 243
-SCC premium structure 705
Mid-South Conference 72
Migrants--children (education) 174
Milk--antibiotic contamination 361
-chocolate (nutrient-rich) 539
-consumption by children 376
-contracting 48
-cooling 734
-drinking, after workout 550
-exports 427
-garlic odor reduction 704
-MS risk lowered by mothers drinking 208
-protein supplement reduces blood pressure 8
-raw (danger) 331
-raw (Kretzing experience) 432
-raw (safety regulations) 43
-residues (avoiding) 360
-retail, comparison 470
-sports drinks vs. 645
-waste 315
Milk marketing--margin management 557-588
Milk powder--dryer (Fonterra) 163
Milk prices--April mailbox 545
-August mailbox 789
-February mailbox 405-661
-flat 804
-forecast 590
-January mailbox 331
-July mailbox 741
-June mailbox 645
-mailbox (2009) 289
-mailbox variance 427
-March mailbox price 465
-margins 105
-May mailbox price 580
-October mailbox 79
-recovery (slowing) 522
-September mailbox 3
-store check 196
-volatility 262
Milk pricing--competitive pay price 479
-marginal 255
-supply management 364
Milk production--California 16
-costs (California) 203
-per cow (2009) 169
-statistics 203
-2009 169
-U.S. 336
Milk quality--lab pasteurized counts 671
-quiz 650
-steps to ensure 23-600
Milk replacer--feeding 521
Milk Secretion, Mastitis, and Quality--on-line classes 21
Milk-to-feed ratio 48-336-550

HOARD'S DAIRYMAN

Milking--robotic 746
-six must-do's 775
Milking Shorthorns--Rowe farm ..... EXPO 7
Milking system--checks .. 265
Minnesota Dairy Health Conference 222
Mohr, B. (Foster Mothers of the Human Race) .. 409
Molybdenim--toxicity 540
Monensin--feeding 498
Mowers--disk 293
MUN--high levels 261

- MEETINGS -

Dairy/animal science joint meeting 262
Discover Conferences 185
4-State Dairy Nutrition and Management Conferenc 278
Kentucky Dairy Industry Partners 95
Mid-South Conference 72
Minnesota Dairy Health Conference 222
National Assn. of Milk Bottle Collectors 238
PASA Conference 72
Pennsylvania Forage and Grassland Council--50th anniversary conference 607
Professional Dairy Managers of Pennsylvania 54
Vermont Feed Dealers and Vermont Dairy Industry Assn.--annual meeting . 590
Virginia--nutrition meeting 843
Western Canadian Dairy Seminar 24
Wisconsin Dairy and Beef Industry Animal Husbandry Conference 155

- N -

National All Jersey--annual meeting 515
National Assn. of Milk Bottle Collectors 238
National Brown Swiss Assn.--Wallace new executive secretary 43
National Dairy Cattle Congress --100th anniversary 505
National Dairy Promotion and Research Board--annual meeting 745
National Dairy Quality Awards --nominations sought .. 489-526
-winners (Round Table) 20A
National Dairy Shrine--award applications 59
-Distinguished Dairy Cattle Breeder (W. Ramsey) ..... EXPO 24
-Graduate Dairy Production Award (Northrop wins) ..... EXPO 38
-Guest of Honor (C. Covington) ..... EXPO 16
-Industry Pioneers ..... EXPO 52
-Klussendorf-McKown Scholarships ..... EXPO 34
-Progressive Dairy Producers ..... EXPO 30
-scholarships 283
..... EXPO 38
-Student Recognition Award winner (Elizabeth Smith-Ziegler) 568
-top dairy seniors . EXPO 27
National Holstein Convention --genomics discussion .. 405
National Johne's Education Initiative--booklet 580
National Junior Assn.--membership (top 10 states) 243
National Milk Producers Federation--annual meeting 745
-SCC challenge..... 637
National Organic Program --audit 331
-pasture standards 243
National Reproduction Awards--nominations sought 288
Neck rail--moving (lameness recovery) 132
Neill and Sons Dairy 653
Net Merit Index--updated . 63
New Zealand--earthquake damage..... 705
Nickel, J. (farming with hearing loss) 832
Nitrogen--reducing 550
North American Intercollegiate Dairy Challenge .. 371-668
No-till farming 470
Nutrient Density to Climate Impact 645
Nutrient management ... 248-376
Nutrition--consultants 826

- O -

Obesity--food makers fight 505
Ohio--animal care standards 474
-animal welfare 243
-counter measure 127
Ohio Livestock Care Standards Board--website 639
On-line--courses 21
Oregon--methane slashing 650
Organic--dairies (size) 8
-farms and ranches 163
-pasture rule 440
-producers (product sales) 203
-program handbook 657
Oxytocin --overuse 84
-reproductive consequences 398
Ozone levels--fermenting cattle feed 505

- P -

Packaging--dairy products 540
Pasteurization--colostrum 589
Pasture---organic farming rule 440
-standards (Nat'l. Organic Program) 243
Peck, W., B., and N. (genomic testing) .. 693-698
Pennsylvania Association for Sustainable Agriculture 72
Pennsylvania Forage and Grassland Council--50th anniversary 607
PepsiCo--sugary drinks (schools) 243
Photoperiod--lengths 618
Pizza--build-your-own (Domino's) 79
-Super Bowl, sales 163
Pneumonia..... 430-581-794
Population--growing (livestock demand) 97
Porcine meat---prices 650
Potassium 248
Prayer 391
Precision feeding 446
Pregnancy--diagnosis (blood tests) 474
-drinking milk during (MS risk lowered) 208
Pregnancy rates--21-day .. 85
Premier Milk, Inc.--dividend payout 331
Professional Dairy Managers of Pennsylvania 54
Protein--chicken feathers . 746
-targeted feeding 662

- Q -

Quarters--slow-milking right rear 159
Quiz--Hoard's Dairyman . 836
-milk quality 650
-125th anniversary 452-510
Quilt--barn, trail 390

- R -

Ramsey, W. (Distinguished Dairy Cattle Breeder) ..... EXPO 24
Ranches--organic 163
Red and White Dairy Cattle Assn.--annual meeting . 554
Refrigerator--vaccine storage 470
Relationships--"routine maintenance" 54
Relative forage quality ... 297
Reproduction--DCRC Awards 752
-heat detection 305
-in vitro fertilization 146
-metrics 292
-pregnancy diagnosis (blood tests) 474
-report card 560
-research 133
-risk factors (large Eastern herds) 168
-troubleshooting 770
-ultrasynch 702
Reproductive programs 24
Research--feeding 691
-genomics 445
-mastitis 458
Research alliance (gas emissions) 43
Robotic milking 213-746
-summing daily milk yields 208
Root rot--alfalfa 93
Rosendale Dairy--permit ..203
Round Table--How the last two years have changed us 748
-How they're handling sire selection . 50
-Low numbers add up to top-quality milk ..... 20 B
-They focus on cow comfort and minimize heat stress 88
-They're on top of vaccination 134
-What guides their culling 796
Rowe, S. (Miking Shorthorns) ..... EXPO 7
Rubber--flooring in free stall area 326
Rumen microbes 722
Rye--cover crop 527

- RECIPES -

Bacon and blue on rye .. 450
Bars--peanut butter blondie, with chocolate chips ... 190
Brownies--apple 190
Catfish--fried, with pecan sauce 596
Cheese pita--roasted garlic 450
Cookies--brownies 'n' cream sandwich 190
Fish 114
Gingersnaps--Peggy Devine's 190
Gravy--turkey 772
Glaze--pomegranate 114
Grilled cheese--New York strip steak 450
-Pacifica pear 450
Mac-n-cheese--Emeril's .. 114
Mousse--rhubarb-strawberry 266
Muffins--cinnamon rhubarb.266
-strawberry-streusel 596
Nuts--rosemary roasted ... 596
Pecan--Georgia, muesli ... 596
Pie--pecan-chicken-Cheddar 666
-salmon 666
Pie crust--Greek chicken in 666
Rhubarb 266
Rhubarb hi-hat 266
Salad--beans, greens, and sausage 532
-chicken 532
-5-minute southwest layered 532
-Grecian beef, tomato, and cucumber 532
-supreme pasta 350
-tuna 114
Sandwiches--cheese 450
-Monte Agatha 450
Sauce--pecan 596
Short ribs--baked barbecue 350
Slush--rhubarb 266
Soup--Janet's fajita 26
-pumpkin, with blue cheese and bacon 26
-seven vegetable 26
Squares--Reese's 190
Stew--chicken and vegetable tortellini 26
Tart--stars and stripes 350
Tilapia 114
Touchdown three-jcheese grillers 450
Turkey--grilled herb, breast 772
-grilling..... 772

- S -

Safety--chemical (cows) . 618
-children (farm chores) 84
-farm 336-626
-grain entrapments 843
-legislation (raw milk) 43
-silo gas 654
-TMR mixer 27
Salmonella--calves (vaccination) 848
-cows 736
Sawdust--bedding 288
Scatterin's 105
Schattner, A., (Peace Corp experience in Kenya) . 726
Scholarships--Core (Achen wins) ..... EXPO 29
-lager (Arlig wins) EXPO 29
-Kildee ..... EXPO 34
-Klussendorf-McKown (six win) ..... EXPO 34
-McCullough, winners (N. Jackson and S. Kasper) ..... EXPO 29
-National Dairy Shrine . 283
-National Dairy Shrine and Dairy Management, Inc. ..... EXPO 38
Scours--calves 521-540
Sculpture--butter (J. Victor)318
Seed corn--ordering 778
-silage (purchasing) 632
Semen--dairy, sales 505
-handling 690
-old bull, wanted 505
-placement 528
-sexed 634-672
Sex--determination 756
Sharemilker program 492
Silage--corn (seed) 632
-corn (top 12 states) 127
Silo gas 654
Silos--bunker (sidewall plastic) 510
Silver--colloidal, for udder [illegible] 398
Sire selection 307
-Round Table 50
Skunks--displacement 493
Sleep--importance 704
Smith, A., editorial intern .371
Snowfall--farm 115
Social media 207-351-631
Social sustainability 224
Soil--light tillage prevents runoff 84
-no-till farming 470
Somatic cell counts--drop in federal orders 639
-EU challenge 637
Sorting 690
Southeast Milk--Bikowitz CEO 163
Southwest Dairy Farmers --dairy promotion 630
Soybean meal--prices ... 132-376-586-789
SPCC 829
Sports drinks 741
Starch--degradability 270
-levels in corn 13
-levels in manure 139
Stiles, M., wins Klussendorf Trophy 695
Store--milk price check .. 196
Straw--feeding 396
Stress--calves 650
-coping with 324
Sturgeon, T. (dealing with adversity) 66
Subsidies 243
Sulfur 248
Symposium--animal agriculture 331

- T -

Tank--milk, check 203
Taste--dairy products 690
Taxes--changes 674
-income (dairy disaster may cause unique situations) 179
TB--USDA modifies, program 505
Teat sealant--proper use prevents cheese flaw . 168
Teats--placement 295
The Foster Mothers of the Human Race 409
Theft--timber 14
Tillage--light, prevents runoff 84
Timber--theft 14
Tires--winter repair 84
TMR--heifers 288
-monitoring 339
Tools--good, for cow care . (importance) 808
Towel--cloth udder 746
Towns--small (Georgia) .. 567
Triplets--frequency 477
Truck drivers--shortage .. 704

- U -

Udder--health 132
-slow-milking right rear quarters 159
-sores 238
-sores (collodial silver) 398
-teat placement 295
Ultrasynch 702
United Dairy Industry Association--annual meeting 745
United Kingdom --benchmarking 718
United Nation's Food and Agriculture Assn.--flaw in report 283
University of Illinois --on-line classes ... 545-810
University of Minnesota --control line of Holsteins 13
U.S.--milk production 336
U.S. Dairy Forum--annual meeting 131
USDA--animal agriculture symposium 331
-data collection and processing center 741
-grant (antibiotic resistance) 789
-National Organic Program audit 331
-TB program 505
Uterus--infuse or not 575

- V -

Vacation--family (importance) 833
Vaccination--calves (salmonella) 848
-mastitis 112
-Round Table 134
Vaccines--cooling 470
Van Doormaal, B., (new chief executive officer of Holstein Canada) .. 580
Vermont Feed Dealers and Vermont Dairy Industry Assn.--annual meeting . 590
Veterinarian--embryo transfer fraud 18
-Kansas program 505
-professional development grant 283
-shortage 405-480
-treating decision 28
Veterinary--care (future) 460
-care (injury prevention) .. 814
-care (teamwork) 710
-equipment (importance of good) 808
-student loans (forgiveness) 163
Veterinary Medicine Loan Repayment Program .. 480
Victor, J. (butter sculpture) 318
VikingGenetics--Jersey bulls with Holstein genes 405
Virginia--nutrition meeting 843
Vitamin D--calcium and .. 248
-calves 586
-winter requirements 132

- WXYZ -

Wage--dairy, survey 79
Wallace, D. (executive secretary National Brown Swiss Assn.)_ 43
Washington Dairygrams 5
45-81-129-165-205-245-285-333-373-407-467-507-547-583-615-647-687-743-791
Washington State University --tuition fees 598-705
Water--ground (antibiotic residues) 518
-heating costs 766
-mineral content 420
-use 420
Weather--predictors 773
Webinars 794
Website--new Hoard's Dairyman 473
Welcome Stock Farm --genomic testing .. 693-698
Westaby, K. ..... EXPO 27
Western Canadian Dairy Seminar 24
Western United Dairymen --grant 639
Wheat--prices 618
Whey--feeding 518
-protein 420
Wind energy 361-530
Winter--tire repair 84
Wisconsin--milk goats 243
Wisconsin Dairy and Beef Industry Animal Husbandry Conference 155
Wood, C. (4-H leader) ... 144
World Dairy Expo--Arena Building ..... EXPO 14
-cattle sales ..... EXPO 20
-check-in changes EXPO 51
-Coliseum ..... EXPO 11
-commercial exhibitors . 465
-cows (past winners) ..... EXPO 22
-Dairy Woman of the Year (L. Doominik) ..... EXPO 54
-Dairyman of the Year (D. Bennink) ..... EXPO 54
-echoes 695
-Exhibition Hall ... EXPO 12
..... and EXPO 13
-exhibitor list and guide ..... EXPO 8 and EXPO 9
-grand champions 696 and 697
-grounds ..... EXPO 15
-health paperwork changes 545
-Industry Person of the Year (H. Backus) ..... EXPO 54
-International Person of the Year (T. Komori) ..... EXPO 54
-judges ..... EXPO 18
-judging contest winners 224-225-789
-Junior Show 697
-offerings ..... EXPO 3
-Outdoor Trade Mall ..... EXPO 14
-recognition winners 331
-schedule ..... EXPO 10
-setting the stage . EXPO44
-social media ..... EXPO 32
-Supreme Champions ..... EXPO 23
Yogurt--sales 79
-sales growth (Danone) . 243
Young Dairy Leaders 436
-Daniels receives award .. 43
"your dairy" 7
Ziegler, E. A. (National Dairy Shrine Student Recognition Award) 568

- PICTURED WERE -

Achen, J. ..... EXPO 27
Albrecht, B. ..... EXPO 43
Albright, J. L. ..... EXPO 52
Allen, D. 617
Anderson, A. 363
Anderson, G. R. 674-763
Arrowsmith, T. 290
Arrowsmith, T. and M. 566
Aves, S. 725
Ayers, S. and C. Families .748
Ayrshire cow--Shamrock-Hills Spectacular-ET ... 251
-Sweet-Pepper Black Francesca 696
Babcock, S. 412
Backus, H. ..... EXPO 54
Barbee, K. ..... EXPO 18
Barmore, J. 108
Bauer, R., K., M., and D. . 20B
Baumgartner, T. 554
Bennink, D. ..... EXPO 54
Berge, L. and L., and Family 552
Bitler, P., D., and J. 796
Blanchard Family Dairy 753
Brand, S. and M., Family .. 50
Braun, S. 702
Brickner, L. and P. 797
Broadwater, N. 379
Brooks, B. 187
Brown, D. 116
Brown Swiss cow--Jo-De Prelude Nancy ET 250
-Old Mill JP Grace 696
Bryant, J. 745
Buska, K. 68
Camerlo, T. 3

KEY TO PAGE NUMBERS

January 10	1-40	June	401-462
January 25	41-76	July	463-502
February 10	77-124	August 10	503-542
February 25	125-160	August 25	543-578
March 10	161-200	September 10	579-610
March 25	201-240	September 25	611-642
April 10	241-280	October 10	643-682
April 25	281-320	October 25	683-736
May 10	329-360	November	730-766
May 25	369-400	December	767-800

A look back at our covers from 2010

Carscadden, B. ..... EXPO 18
Case, C. and S. ..... 31 (R)
Castelanelli, L. 251
Cha, E. 112
Cha, E. 112
Chickering-Sears, C. 290
Coopernider, T. 50
Coppini Family 250
Covington, C. ..... EXPO 16
Craswell, B. ..... EXPO 18
Crosswind Jerseys (Temperli Family) 752
Cull, K. 290
Cundiff, D. 134
Curtin, J., R., and D. 752
Curtis, C. 552
Dairy Farmers of America Team 2 363
Daninger, E. E. 789
Dobson, B. 549
Doornink, L. ..... EXPO 54
Dorshorst, M. 116
Dotson, E. 11
Dreier, B. and R. ..... 20 B
Duffield, T. 344
Dyk, P. 171
Foster, B. 617
FFA chapter, Fair Play, Mo. . 3
FFA chapter, Prairie Central, Ill. 3
Funk, J. and D., and Sons 88
Gable, B. ..... EXPO 36
Gallagher, T. 259
Giesy, J. 30
Gilbert, J. 796
Gilbert, W. 363
Goesser, J. 633
Grammer, B. 815
Grandin, T. 375
Gress, E. 815
Guernsey cow--Four Winds Mentor Highlite 697
-Indian Acres MM Pistachio Pie . EXPO 23
Hallemeister, G. 632
Hallbach, T. 363
Halvorson, R. 108
Harbaugh, L. ..... EXPO 18
Hardie, L. ..... EXPO 27
Hartford, D. 51
Hartschuh, J. 320
Harvey, R. J. 134
Hersey, B. 796
Helmer, S. 89
Henderson, T. and A., Family ..... 20 C
Hibma, J. 823
Hill, S. J. 668
Hillstrom, J. 7
Hinnencamp, I. 600
Hoffman, J. H. ..... EXPO 27
Hollig, R. and J.family 135
Hollowbush, B. 796
Holstein bull--Braeblate Goldwyn 283
Holstein cow--Ever-Green View My 1326 ET 163
-Harvue Roy Frosty 696
-Nina ..... EXPO 43
-Ryan-Vu Metro Natalie-ET 336
Horst, V. 318
Howard, M. E. ..... EXPO 52
Huiras, J. 363
Hurtgen, S. 251
Hushon, C. ..... 31 (R)
Hushon, J. 207
Huijens, M. F. 512-691
Jackson County 4-H dairy judging team 362
Janni, K. 378
Jersey cow--Classic Fields Vindicate Genie 697
-Frederick 2753 Adventure 697
-Ratliff Price Alicia 815
-UHT Canaan Excalibur Brooke 251
Johnson, L. ..... EXPO 27
Johnson, S. 514
Jordan, E. R. 133-264
Joseph. J. 116
Jurgens, H. and R. 632
Kerschensteiner, M. H.. ... 556
Ketchum, R. and T. ..... 20 D
Kendall, D. 516
King Family 748
Kinnard, B. 363
Kirchner, S. ..... EXPO 27
Knevelbaard Dairy 752
Knox, B. ..... EXPO 40
Kohli, D. 469
Komori, T. ..... EXPO 54
Koolman, M. 108
Krahn, M. 789
Kretzing, P. and A., ... 432
Kronemeyer, J. and J. 135
Krusenburn, J., J., S., and A. 492
Langel, B. 295
Lee, L. 514
Lehoux, G. 580
Liddle, A. 290
Longo, L. P. 733
Majeskie, J. L. ..... EXPO 52
Majestic Meadows Dairy .. 752
Maryland 4-H judging team 725
McCauley, T. ..... EXPO 39
McClellan Farms crew ... 20 C
McEvoy, C. ..... EXPO 46
McGuffey, R. K. 826
McKinven, C. ..... EXPO 18
McQuiddy, C. and S. 758
Meabon, P. 745
Meier, B. 815
Meier, D. 363
Meinholtz, M. 363
Meikle, A. 797
Mellema, S. 134
Meyer, A. and M. 749
Meyer, J. 516
Michigan State University--milking crew ..... 20 C
Mikulice, B., M., R., and S. 335
Milking Shorthorn cow--Innistail Lobelia 72nd Exp ..... EXPO 48
-Tex-Sar Othello Peri ... 697
Miller, K. and B., and Family 88
Mohr, B. ..... EXPO 40
Montalvo, J. 796
Mooney, R. 316
Moser, L. 212
Mosser, R. ..... EXPO 18
Moyers, M. 515
Nabholz, N. ..... EXPO 18
Nass, G. 632
National Dairy Shrine --officers 43
Neill, E., J., C., and C. .. 653
Newell, S. 494
Niangua FFA chapter 362
Nickel, J., B., and C. 832
North American Intercollegiate Dairy Challenge--winning teams 371
Northrop, T. ..... EXPO 38
Novakovic, A. 83
O'Neill, S. and T., Family. 251
Osinga, S., G., R., J., B., and J. 492
Peck, B. and W. 693
Peterson, R. and K., and Family 251
Powell, R. L. ..... EXPO 52
Ramsey, W. ..... EXPO 24
Reape, N. 695
Rector, N. 87
Red and White Holstein cow --Blondin Redman Selsms696
Redding, R. 318
Reinoehl, S. 362
Rice, D. and D. ..... 20 D
Robey, A. 797
Rowell, B. 236
Roy, G. 580
Rugenstein, B. 90
Ryan, M. and M., Family 250
Sattazahn. K. 47-585-649
Sauder, B. 697
Schattner, A. 726
Schevlin, K. 335
Schiller, C. ..... EXPO 27
Sears, A. ..... EXPO 23
Shelton, B. 89
Sherman, S. and V. 440
Siebenborn, B. 745
Sipiorski, G. 469
Silker, W. 695
Smith, A. 371-568-594-653-758
Smith, G. 49-252-751-799
Smith, N. 515
Smith, R. 316
Sowerby, M. ..... EXPO 52-695
Sprengeler, A. ..... EXPO 27
St. John, R. ..... 253 (R)
Stanton, D. 702
Stanton, L., J., and J. 51
Stewart, B. 695
Stiles, M. 695
Strom, L. A. 21
Sturgeon Family 66
Suny-Cobleskill judging team 724
Swatek, J. 363
Thomas, E. D. 293-818
Thomas, M. J. 448
Townsley, R. 815
Undersander, D. 337
University of Wisconsin-Madison judging team . 724
Upchurch, D. 251
Van Doormaal, B.. 580
Vander Kooys Family 749
Verhasselt, D. 363
Victor, J. 318
Wall, E. 472
Wallin, S. ..... 253 (R)
Wallenhorst, IN. 568
Wautlet, R. 108
Weeman, S. 815
Westaby, K. ..... EXPO 27
White, S. 695
Whittier, T. 51
Wickham, G. 745
Wiltbank, M.C. 85
Winkelman, L. 30-192-534
Wiseley, M. 68
Wood, C. 144
Zausch, J. 363
Ziegler, E. S. .. EXPO 27-568
Zielsdorf, B. ..... 20 B
Zirk, S. 335

- COVER PICTURES -

Ayrshire class in cow judging contest 125
Bansen, J. 579
Brown Swiss class in cow judging contest 1
Christmas painting 787
Double J Jerseys (J. Bansen) 579
Dyment, D. 683
Fletcher Dairy (Ed and Rob Fletcher) 369
Foster Mothers of the Human Race (painting) . 404
Goldberg, C. (Goldberg's Lakeview Dairy) 329
Green Aces Milking Shorthorns (J. and C. Wortman) 643
Guernsey class in cow judging contest 77
Harve Roy Frosty 683
High Hillside Acres (G. and M. Gierok Family) 739
Holstein class in cow judging contest 41
Jersey class in cow judging contest 161
Rubingh's Breezy Acres Holsteins (G. and G. Rubingh) 283
Snider Homestead Farm Guernsey calf (Gable Family) 241
Sunnyside Farms (G. and L. Rejman) 201
Sunset-Acres (A. Conro) 543
T. and T. Cattle (G. Troost) 611
Windsor Manor Holsteins (J. and D. Myers) 503
Zaugg Dairy (Jerseys) 463

KEY TO PAGE NUMBERS

January 10	1-40	June	401-462
January 25	41-76	July	463-502
February 10	77-124	August 10	503-542
February 25	125-160	August 25	543-578
March 10	161-200	September 10	579-610
March 25	201-240	September 25	611-642
April 10	241-280	October 10	643-682
April 25	281-320	October 25	683-738
May 10	321-360	November	739-786
May 25	361-400	December	787-850